

**IN THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the present patent application.

1. (Currently Amended) An image apparatus ~~with batch scan and real time display,~~ comprising:

a scanner ~~for scanning~~ adapted to scan a first document to be scanned;

a memory ~~for storing~~ adapted to store image data corresponding to said first document that processing through said scanner;

a signal control device ~~for displaying~~ adapted to generate a notify signal to notice the a user displaying said document on a display device when in response to said document stores image data being stored in said memory through said scanner;

and

a switch control device ~~for receiving~~ adapted to receive a starting signal to display said document on a said display device, and ~~noticing~~ further adapted so that said scanner proceeding has the capability to scan a next document substantially concurrently with a displaying of the first document.

2. (Currently Amended) The apparatus according to claim 1, further comprising a transmission device ~~transmitting~~ adapted to transmit said first document to be scanned into said scanner.

3. (Currently Amended) The apparatus according to claim 2, wherein said transmission device comprises a document handling device is selected from the group consisting essentially of a positive photograph holder, a negative photograph holder, and an ADF (automatic

document feeder).

4. (Currently Amended) The apparatus according to claim 1, wherein said memory is comprises a buffer selected from the group consisting of a ring buffer and a ping-pong buffer.

5. (Currently Amended) The apparatus according to claim 4, wherein said ~~memory~~ buffer comprises two or more memory buffer blocks ~~at least, and the capacity of said memory~~ is determined by user.

6. (Currently Amended) The apparatus according to claim 1, further comprising a display switch ~~for receiving~~ adapted to receive said a notify signal and ~~displaying further~~ adapted so that said notify signal is capable of being displayed on said display device ~~for informing user to display said document~~.

7. (Currently Amended) The apparatus according to claim 1, wherein said notify signal comprises an image is selected from the group consisting of an arrow image, a twinkling image and an unlike color image.

8. (Currently Amended) The apparatus according to claim 1, wherein said display device comprises a peripheral is selected from the group consisting essentially of a television, a monitor, a liquid crystal display and a projector.

9. (Currently Amended) An image scanning system ~~apparatus with batch scan and real time display~~, comprising:

a scanner ~~for scanning~~ adapted to scan a first document ~~to be scanned~~;

a transmission device ~~for transmitting~~ adapted to transmit said first document ~~to be~~  
~~scanned into said scanner;~~

a memory ~~for storing~~ adapted to store image data corresponding to said first document  
~~that processing through said scanner;~~

a signal control device ~~for producing~~ adapted to produce one or more signals including a  
 notify signal ~~when~~ in response to the image data corresponding to said first document being  
stored ~~stores in said memory through said scanner;~~

a display switch ~~for receiving a~~ adapted to receive the notify signal and ~~displaying to~~  
display said notify signal on said display device ~~for informing user to display said first~~  
~~document;~~ and

a switch control device ~~for receiving~~ adapted to receive a starting signal to display said  
 first document on said display device, and ~~noticing said transmission device transmitting~~  
~~second document into said scanner to going on~~ further adapted to notify said transmission  
device to transmit a second document to said scanner, the display device to display said first  
document substantially concurrently with the transmission of the second document to the  
scanner.

10. (Currently Amended) The ~~apparatus~~ system according to claim 9, wherein said  
 transmission device comprises a document handling device is selected from the group  
 consisting essentially of a positive photograph holder, a negative photograph holder, and an  
 ADF (automatic document feeder).

11. (Currently Amended) The ~~apparatus~~ system according to claim 9, wherein said  
 memory comprises one or more buffers is selected from the group consisting essentially of a

ring buffer and a ping-pong buffer.

12. (Currently Amended) The ~~apparatus~~ system according to claim 11, wherein said memory comprises two or more memory buffer blocks ~~at least, and the capacity of said memory is determined by user.~~

13. (Currently Amended) The ~~apparatus~~ system according to claim 9, wherein said notify signal comprises an image is selected from the group consisting essentially of an arrow image, a twinkling image and an unlike color image.

14. (Currently Amended) The ~~apparatus~~ system according to claim 9, wherein said display device comprises a peripheral is selected from the group consisting of a television, a monitor, a liquid crystal display and a projector.

15. (Currently Amended) A scanning method ~~with synchronous scan and display,~~ comprising:

scanning a first document; and  
 storing said first document into a memory;  
~~displaying a notify signal to notice the user displaying said document on a display device; and~~  
~~utilizing a switch control device for receiving a starting signal; to~~  
 displaying said first document ~~on said display device; ; and~~  
 scanning a next document substantially concurrently with the displaying of said first document simultaneously.

16. (Currently Amended) The method according to claim 15, further comprising a transmission device transmitting said first document ~~to be scanned~~ into said scanner.

17. (Currently Amended) The method according to claim 16, wherein said transmission device is selected from the group consisting of a positive photograph holder, a negative photograph holder, and an ADF (automatic document feeder).

18. (Currently Amended) The method according to claim 15, wherein said memory comprises a buffer is selected from the group consisting essentially of a ring buffer and a ping-pong buffer.

19. (Currently Amended) The method according to claim 18, wherein said memory comprises two or more memory buffer blocks ~~at least, and the capacity of said memory is determined by the user.~~

20. (Currently Amended) The method according to claim 15, further comprising displaying a notify signal wherein displaying the notify signal includes receiving a notify signal at a display switch ~~further comprising a display switch for receiving a notify signal and displaying said notify signal on said display device for informing user to display said document.~~

21. (Currently Amended) The method according to claim 20, wherein said notify signal comprises an image is selected from the group consisting essentially of an arrow image, a twinkling image and an unlike color image.

22. (Currently Amended) The method according to claim 15, wherein displaying said first document includes displaying said first document on a display device wherein said display device comprises a peripheral is selected from the group consisting essentially of a television, a monitor, a liquid crystal display and a projector.

23. (Currently Amended) A scanning method ~~with synchronous scan and display~~, comprising:

~~utilizing a transmission device to~~ transmitting a first document into a scanner;  
 scanning said first document and storing said first document ~~into a memory;~~  
 displaying a notify signal on a display device to ~~notice the~~ notify a user displaying to  
display said document on said display device; and

utilizing a switch control device ~~for receiving~~ to receive a starting signal to display said first document on said display device, and ~~noticing~~ further to notify said transmission device to transmit a ~~transmitting~~ second document into said scanner, wherein the transmission of the second document to the scanner occurs substantially concurrently with the displaying of the first document ~~to going on simultaneously.~~

24. (Currently Amended) The method according to claim 23, wherein said transmission device comprises a document handling device is selected from the group consisting essentially of a positive photograph holder, a negative photograph holder, and an ADF (automatic document feeder).

25. (Currently Amended) The method according to claim 23, wherein said memory comprises a buffer is selected from the group consisting essentially of a ring buffer and a ping-

pong buffer.

26. (Currently Amended) The method according to claim 25, wherein said memory comprises two or more memory buffer blocks ~~at least~~, and further wherein the capacity of said memory is determined by the user.

27. (Currently Amended) The method according to claim 23, wherein said notify signal comprises an image is selected from the group consisting essentially of an arrow image, a twinkling image and an unlike color image.

28. (Currently Amended) The method according to claim 23, wherein said display device comprises a peripheral is selected from the group consisting essentially of a television, a monitor, a liquid crystal display and a projector.

29. (New) An apparatus, comprising:  
a scanner capable of scanning a first document and a second document; and  
a switch operable so that a display of the first document occurs concurrently with the scanning of the second document.

30. (New) The apparatus of claim 29, further comprising a memory capable of storing image data corresponding to the first document.

31. (New) The apparatus of claim 29, further comprising a signal control device capable of generating a notify signal.

32. (New) The apparatus of claim 31, wherein the switch is further capable of receiving a start signal from a user, the switch operable so that the display of the first document occurs at least in part in response to receiving the start signal from the user.

33. (New) An article comprising: a storage medium having stored thereon instructions, that, if executed, result in performance of a method comprising:

- scanning a first document;
- storing said first document into a memory;
- receiving a starting signal;
- displaying said first document; and
- scanning a next document substantially concurrently with the displaying of said first document.

34. (New) The article according to claim 33, further comprising transmitting said first document to said scanner.

35. (New) The article according to claim 33, wherein said memory comprises two or more memory buffer blocks.

36. (New) The article according to claim 33, further comprising displaying a notify signal.